

WHAT IS CLAIMED IS:

1. An isolated or recombinant polynucleotide encoding an antigenic polypeptide comprising at least 17 contiguous amino acids from the mature polypeptide from:
- 5 a) SEQ ID NO: 2; or
b) SEQ ID NO: 5 or 7.
2. The polynucleotide of Claim 1, encoding a mature polypeptide from SEQ ID NO: 2, 5, or 7.
- 10 3. The polynucleotide of Claim 1, which hybridizes at 55° C, less than 500 mM salt, and 50% formamide to the coding portions of SEQ ID NO: 1 or 4 or 6.
- 15 4. The polynucleotide of Claim 3, comprising at least 35 contiguous nucleotides of the coding portion of SEQ ID NO: 1 or 4 or 6.
- 20 5. An expression vector comprising the polynucleotide of Claim 1.
6. A host cell containing the expression vector of Claim 5, including a eukaryotic cell.
- 25 7. A method of making an antigenic polypeptide comprising expressing a recombinant polynucleotide of Claim 1.
- 30 8. A method for forming a duplex with a polynucleotide of Claim 1, comprising contacting said polynucleotide with a probe that hybridizes, under stringent conditions, to at least 25 contiguous nucleotides of the coding portion of SEQ ID NO: 1 or 4 or 6; thereby forming
- 35 said duplex.

9. A kit for the detection of a polynucleotide of Claim 1, comprising a polynucleotide that hybridizes, under stringent hybridization conditions, to at least 17 contiguous nucleotides of a polynucleotide of Claim 1.

10. The kit of claim 9, wherein said probe is detectably labeled.

11. A binding compound comprising an antibody binding site which specifically binds to at least 17 contiguous amino acids from SEQ ID NO: 2 or 5 or 7.

12. The binding compound of Claim 11, wherein:

a) said antibody binding site is:

1) specifically immunoreactive with a polypeptide of SEQ ID NO: 2 or 5 or 7;

2) raised against a purified or recombinantly produced human DC-STAMP or DSP-1 protein;

3) in a monoclonal antibody, Fab, or F(ab)₂; or

b) said binding compound is:

1) an antibody molecule;

2) a polyclonal antiserum;

3) detectably labeled;

4) sterile; or

5) in a buffered composition.

13. A method using the binding compound of Claim 11, comprising contacting said binding compound with a biological sample comprising an antigen, wherein said contacting results in formation of a binding compound:antigen complex.

14. The method of Claim 13, wherein said biological sample is from a human, and wherein said binding compound is an antibody.

315. 2 A detection kit comprising said binding compound
of Claim 12, and:
Sub C1) a) instructional material for the use of said binding
compound for said detection; or
5 b) a compartment providing segregation of said
binding compound.

16. A substantially pure or isolated antigenic
polypeptide, which binds to said binding composition of
10 Claim 11, and further comprises at least 17 contiguous amino
acids from SEQ ID NO: 2 or 5 or 7.

17. The polypeptide of Claim 16, which:
15 a) comprises at least a fragment of at least 25
contiguous amino acid residues from a primate DC-
STAMP or DSP-1 protein;
b) is a soluble polypeptide;
c) is detectably labeled;
d) is in a sterile composition;
20 e) is in a buffered composition;
f) binds to a cell surface receptor;
g) is recombinantly produced; or
h) has a naturally occurring polypeptide sequence.

25 18. The polypeptide of Claim 17, which comprises at
least 17 contiguous amino acids of SEQ ID NO: 2 or 5 or 7.

19. A method of modulating physiology or development
of a cell or tissue culture cells comprising contacting said
30 cell with an agonist or antagonist of a primate DC-STAMP or
DSP-1.

20.

a) said contacting is in combination with an agonist or antagonist of Flt3 ligand; or

b) said contacting is with an antagonist, including binding composition comprising an antibody binding site which specifically binds a DC-STAMP or DSP-1.

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